

What is claimed is:

1. A method for manufacturing an electroluminescent device comprising a step of forming an electroluminescent layer between a pair of electrodes in the  
5 electroluminescent device,

wherein the electroluminescent layer is formed using an electrochemical method by flowing a current to one of the pair of electrodes with a current density from 0.4 to 1.5 mA/cm<sup>2</sup> for 0.8 to 3.0 seconds.

10 2. A method for manufacturing an electroluminescent device comprising a step of forming an electroluminescent layer between a pair of electrodes in the electroluminescent device,

wherein the electroluminescent layer is formed using an electrochemical method by flowing a current with a current density from 0.4 to 1.5 mA/cm<sup>2</sup> to one  
15 of the pair of electrodes for 0.8 to 3.0 seconds, and

wherein total quantity of electrical charge per unit area of the one of the pair of electrodes is from 1.0 to 1.2 mC/cm<sup>2</sup> in the electrochemical method.

3. A method for manufacturing an electroluminescent device according to  
20 Claim 1, wherein the electroluminescent layer comprises a compound selected from the group consisting of pyrrol, indol, thiophene, 3,4-ethylenedioxythiophene, benzene, naphthalene, azulene, and phenylene oxide.

4. A method for manufacturing an electroluminescent device according to  
25 Claim 2, wherein the electroluminescent layer comprises a compound selected from the group consisting of pyrrol, indol, thiophene, 3,4-ethylenedioxythiophene,

benzene, naphthalene, azulene, and phenylene oxide.

5 5. A method for manufacturing an electroluminescent device comprising a step of forming an electroluminescent layer between a pair of electrodes in the electroluminescent device,

wherein the electroluminescent layer has a lamination structure comprising a first electroluminescent layer and a second electroluminescent layer,

wherein the first electroluminescent layer is formed using an electrochemical method by flowing a current to one of the pair of electrodes with a  
10 current density from 0.4 to 1.5 mA/cm<sup>2</sup> for 0.8 to 3.0 seconds; and

wherein the second electroluminescent layer is formed by vapor deposition.

15 6. A method for manufacturing an electroluminescent device comprising a step of forming an electroluminescent layer between a pair of electrodes in the electroluminescent device,

wherein the electroluminescent layer has a lamination structure comprising a first electroluminescent layer and a second electroluminescent layer,

20 wherein the first electroluminescent layer is formed using an electrochemical method by flowing a current to one of the pair of electrodes with a current density from 0.4 to 1.5 mA/cm<sup>2</sup> for 0.8 to 3.0 seconds,

wherein total quantity of electrical charge per unit area of the one of the pair of electrodes is from 1.0 to 1.2 mC/cm<sup>2</sup> in the electrochemical method, and

25 wherein the second electroluminescent layer is formed by vapor deposition.

7. A method for manufacturing an electroluminescent device comprising a step of forming an electroluminescent layer between a pair of electrodes in the electroluminescent device,

wherein the electroluminescence layer comprises:

- 5                   a hole injecting layer;
- a hole transporting layer; and
- a light-emitting layer,

wherein the hole injecting layer is formed using an electrochemical method by flowing a current to one of the pair of electrodes with a current density from 0.4  
10   to 1.5 mA/cm<sup>2</sup> for 0.8 to 3.0 seconds, and

wherein the hole transporting layer and the light-emitting layer are formed by vapor deposition.

8. A method for manufacturing an electroluminescent device comprising a  
15   step of forming an electroluminescent layer between a pair of electrodes in the electroluminescent device,

wherein the electroluminescent layer comprises:

- a hole injecting layer;
- a hole transporting layer; and
- 20               a light-emitting layer,

wherein the hole injecting layer is formed using an electrochemical method by flowing a current to one of the pair of electrodes with a current density from 0.4  
to 1.5 mA/cm<sup>2</sup> for 0.8 to 3.0 seconds,

wherein total quantity of electrical charge per unit area of the one of the  
25   pair of electrodes is from 1.0 to 1.2 mC/cm<sup>2</sup> in the electrochemical method, and

wherein the hole transporting layer and the light-emitting layer are formed

by vapor deposition.

9. A method for manufacturing an electroluminescent device according to Claim 5, wherein the first electroluminescent layer comprises a compound selected  
5 form the group consisting of pyrrol, indol, thiophene, 3,4-ethylenedioxythiophene, benzene, naphthalene, azulene, and phenylene oxide.

10. A method for manufacturing an electroluminescent device according to Claim 6, wherein the first electroluminescent layer comprises a compound selected  
10 form the group consisting of pyrrol, indol, thiophene, 3,4-ethylenedioxythiophene, benzene, naphthalene, azulene, and phenylene oxide.

11. A method for manufacturing an electroluminescent device according to Claim 7, wherein the hole injecting layer comprises a compound selected form the  
15 group consisting of pyrrol, indol, thiophene, 3,4-ethylenedioxythiophene, benzene, naphthalene, azulene, and phenylene oxide.

12. A method for manufacturing an electroluminescent device according to Claim 8, wherein the hole injecting layer comprises a compound selected form the  
20 group consisting of pyrrol, indol, thiophene, 3,4-ethylenedioxythiophene, benzene, naphthalene, azulene, and phenylene oxide.

13. A method for manufacturing an electric appliance having the electroluminescent device according to claim 1,  
25 wherein the electric appliance is selected from the group consisting of a display device, a laptop computer, a mobile computer, an image reproduction

device, a goggle type display, a video camera and a cellular phone.

14. A method for manufacturing an electric appliance having the electroluminescent device according to claim 2,

5        wherein the electric appliance is selected from the group consisting of a display device, a laptop computer, a mobile computer, an image reproduction device, a goggle type display, a video camera and a cellular phone.

15. A method for manufacturing an electric appliance having the  
10        electroluminescent device according to claim 5,

      wherein the electric appliance is selected from the group consisting of a display device, a laptop computer, a mobile computer, an image reproduction device, a goggle type display, a video camera and a cellular phone.

16. A method for manufacturing an electric appliance having the  
15        electroluminescent device according to claim 6,

      wherein the electric appliance is selected from the group consisting of a display device, a laptop computer, a mobile computer, an image reproduction device, a goggle type display, a video camera and a cellular phone.

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17. A method for manufacturing an electric appliance having the electroluminescent device according to claim 7,

      wherein the electric appliance is selected from the group consisting of a display device, a laptop computer, a mobile computer, an image reproduction  
25        device, a goggle type display, a video camera and a cellular phone.

18. A method for manufacturing an electric appliance having the electroluminescent device according to claim 8,

wherein the electric appliance is selected from the group consisting of a display device, a laptop computer, a mobile computer, an image reproduction  
5 device, a goggle type display, a video camera and a cellular phone.

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